

AMENDMENTS TO THE CLAIMS:

1. (Previously Presented) An electric plant for high voltage including one or more motors, each comprising at least one winding, wherein the winding of at least one of the electric motors forms at least one complete uninterrupted turn, said winding comprising an electrical conductor including a plurality of insulated conductive elements and at least one uninsulated conductive element; and an electric field confining insulation system including an inner semiconducting layer, surrounding and being in electrical contact with the at least one uninsulated conductive element; a solid insulation layer surrounding the inner layer and an outer semiconducting layer surrounding the insulation layer, each semiconducting layer forming an equipotential surface around the conductor.
2. (Previously Presented) A plant as claimed in claim 1, wherein at least one motor has one or more connection voltages.
3. (Previously Presented) A plant as claimed in claim 1, wherein at least one of the semiconducting layers has substantially the same coefficient of thermal expansion as the solid insulation.
4. (Previously Presented) A plant as claimed in claim 1, wherein transformation of substantial power takes place in the same electric motor.
5. (Cancelled)
6. (Previously Presented) A plant as claimed in claim 1, wherein the inner semiconducting layer is at substantially the same potential as the conductor.
7. (Cancelled)
8. (Previously Presented) A plant as claimed in claim 1, wherein said outer semiconducting layer is connected to a predefined potential.
9. (Previously Presented) A plant as claimed in claim 8, wherein the predefined potential is earth potential.
10. (Previously Presented) A plant as claimed in claim 1, wherein at least two of said layers have substantially the same coefficient of thermal expansion.
11. (Cancelled)

12. (Cancelled)
13. (Cancelled)
14. (Previously Presented) A plant as claimed in claim 1, wherein the motor has a stator and said stator is cooled at earth potential by means of a flow of at least one of gas and liquid.
15. (Previously Presented) A plant as claimed in claim 1, wherein the cable has a conductor area of about 40 and about 3000 mm² and have an outer cable diameter of about 10 and about 250 mm.
16. (Previously Presented) A plant as claimed in claim 1, further comprising an electrostatic machine for series connection to the motor for limiting at least one of start current and fault current for the rotating electric motor.
17. (Previously Presented) A plant as claimed in claim 1, including an impedance and wherein at least one motor has a neutral point earthed via said impedance.
18. (Previously Presented) A plant as claimed in claim 1, wherein at least one motor has a neutral point directly connected to earth.
19. (Previously Presented) A plant as claimed in claim 1, wherein at least one motor is operative to produce reactive power with relatively large overload capacity.
20. (Previously Presented) A plant as claimed in claim 1, wherein at least one motor is connectable to a distribution network or transmission network via coupling elements and without any step-down transforming of the voltage level.
21. (Previously Presented) A plant as claimed in claim 1, wherein at least one motor is connectable to a distribution network or transmission network having a supply voltage in excess of 36 kV.
22. (Previously Presented) A plant as claimed in claim 1, wherein the winding of at least one motor is adapted for self-regulating field control free of auxiliary means for control of the field.
23. (Cancelled)

24. (Cancelled)
25. (Cancelled)
26. (Currently Amended) A motor plant as claimed in claim 1, wherein the at least one motor includes a stator winding divided into two parts in order to achieve partial winding start.
27. (Currently Amended) A motor plant as claimed in claim 1, wherein at least one motor has one or more connection voltages.
28. (Cancelled)
29. (Previously Presented) A plant for high voltage electric including a motor including at least one winding, wherein said winding comprises a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor including an inner layer of semiconducting material surrounding the conductor, a solid insulating layer surrounding the inner layer, and an outer layer of semiconducting material surrounding the insulating layer, the conductor including a plurality of insulated conductive elements and at least one uninsulated conductive element in contact with the inner layer, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.
30. (Previously Presented) The plant of claim 29, wherein the outer layer has a conductivity sufficient to establish an equipotential surface around the conductor.
31. (Cancelled)
32. (Cancelled)
33. (Previously Presented) The plant of claim 29, wherein the inner layer, the solid insulating layer and the outer layer are substantially free of cracks.
34. (Cancelled)
35. (Previously Presented) The plant of claim 29, wherein the layers of the cover have substantially the same temperature coefficient of expansion.

36. (Previously Presented) The plant of claim 29, wherein the machine is operable at 100% overload for two hours.
37. (Previously Presented) The plant of claim 29, wherein motor has coil end regions without an electric field outside of the cable, such that the cable is operable free of sensible end winding loss.
38. (Previously Presented) The plant of claim 1, wherein at least one motor is operable free of partial discharge and field control.
39. (Original) The plant of claim 29, wherein the winding comprises multiple uninterrupted turns.
40. (Cancelled)
41. (Original) The plant of claim 29, wherein the cable comprises a transmission line.
42. (Original) The plant of claim 29 being operable above 36kV.
43. (Previously Presented) An electric plant for high voltage including at least one motor comprising at least one winding in the form of at least one uninterrupted turn, the winding including an electrical conductor including a plurality of insulated conductive elements and at least one uninsulated conductive element, a magnetically permeable electric field confining insulating covering the conductor including an inner semiconducting layer surrounding and being in electrical contact with the at least one uninsulated conductive element; a solid insulation surrounding the inner layer and an outermost semiconducting layer surrounding the insulating layer, each semiconducting layer forming an equipotential surface around the conductor.
44. (Previously Presented) An electric plant for high voltage including at least one motor comprising at least one winding, including an electrical conductor including a plurality of uninsulated conductive elements and at least one uninsulated conductive element, said conductor forming at least one complete turn of the winding, an electric field confining insulating covering surrounding the conductor including an inner semiconducting layer in electrical contact with the at least one uninsulated conductive element; a solid insulation surrounding the inner layer, and an outermost semiconducting layer surrounding the

insulation layer, each semiconducting layer forming an equipotential surface around the conductor.